

Contents—Volume 13, 1985–1986

Current Microbiology

© Springer-Verlag New York Inc. 1986

Number 1, 1986

Prakash Singh Bisen, Surabhi Audholia, Arun Kishore Bhatnagar, and Suvendra Nath Bagchi Evidence of Lysogeny and Viral Resistance in the Cyanobacterium <i>Phormidium uncinatum</i>	1
Jan Ursing Similarities of Genome Deoxyribonucleic Acids of <i>Pseudomonas</i> Strains Isolated from Meat	7
Truman B. Clark, Joseph G. Tully, David L. Rose, Roberta Henegar, and Robert F. Whitcomb Acholeplasmas and Similar Nonsterol-requiring Mollicutes from Insects: Missing Link in Microbial Ecology	11
Stephen P. Mann, Geoffrey P. Hazlewood, and Colin G. Orpin Characterization of a Cryptic Plasmid (p0M1) in <i>Butyrivibrio fibrisolvens</i> by Restriction Endonuclease Analysis and Its Cloning in <i>Escherichia coli</i>	17
Felix C. W. Koo and Marshall D. Stein Detection of an Extracellular Toxin Produced by Burn Isolates of <i>Klebsiella pneumoniae</i>	23
Andrew M. Kropinski, Denise Berry, and E. Peter Greenberg The basis of Silver Staining of Bacterial Lipopolysaccharides in Polyacrylamide Gels	29
Annarosa Selli, Franca Crociani, Diego Matteuzzi, and Giorgio Crisetig Feedback Inhibition of Homoserine Dehydrogenase and Threonine Deaminase in the Genus <i>Bifidobacterium</i>	33
Graham Bradley and Christine C. Gaylarde Influence of Iron on Outer Membrane Components of <i>Desulfovibrio vulgaris</i>	39
Yoshiya Shigematsu, Ken Tsukahara, Tomoaki Tanaka, Michio Takeuchi, and Eiji Ichishima Molecular and Enzymatic Properties of 1,2- α -D-Mannosidase from <i>Aspergillus saitoi</i>	43
Eiji Ichishima, Yasuhiro Kawai, Michio Takeuchi, and Kenkichi Ahiko Initial Cleavage Site of the Oxidized Insulin B-chain by a Ribosomal Proteinase from <i>Streptococcus lactis</i> , a Food Microorganism	47
Nalin Rastogi, Hugo L. David, and Claude Frehel Ultrastructure of "Gordona aurantiaca" Tsukamura 1971	51

Number 2, 1986

Catherine A. Muckle and Carlton L. Gyles Exotoxin Activities of <i>Corynebacterium pseudotuberculosis</i>	57
James A. Lindsay and Jane D. Dennison Histopathological Effect of <i>Clostridium perfringens</i> 8-6 Enterotoxin on Rabbit Intestine	61
Helmut Mett, Lydie Kloetzlen, and J. Hinrich Peters Opsonin-dependent Phagocytosis of Bacteria by Murine Macrophage-like Cells	67
Moses A. Adetumbi and Benjamin H. S. Lau Inhibition of in vitro Germination and Spherulation of <i>Coccidioides immitis</i> by <i>Allium sativum</i>	73
Diane S. Herson, Balkumar Marthi, Mary Anne Payer, and Katherine H. Baker Enumeration of Chlorine-stressed Organisms with Acridine Orange 2-(p-Iodophenyl)-3-(p-Nitrophenyl)-5-Phenyl Tetrazolium Chloride (AOINT)	77
Lena Hansson and Margareta H. Häggström Metabolic Effects of Paraquat on <i>Saccharomyces cerevisiae</i>	81
Hiroshi Sugiyama, Michael J. Woller, and Jami L. Prather Intestinal Colonization of Mice by Air-disseminated <i>Clostridium botulinum</i>	85
Hanna Avni Hill and John Elliott Hill The Value of Plasmid Profiling in Monitoring <i>Lactobacillus plantarum</i> in Silage Fermentations	91
Gottfried Feistner and Carle M. Staub 6-Thioguanine from <i>Erwinia amylovora</i>	95
Divaker Choubey and K. P. Gopinathan Factors Affecting the Synthesis and Distribution of β -Lactamase in <i>Mycobacterium smegmatis</i> SN2 Cultures	103

- Igor Kučera, Roman Matyášek, Jiřina Dvořáková, and Vladimír Dadák
Anaerobic Adaptation of *Paracoccus denitrificans*: Sequential Formation of Denitrification Pathway and Changes in Activity of 5-Aminolevulinate Synthase and Catalase 107
- Kari S. Gobius and John M. Pemberton
Use of Plasmid pULB113 (RP4::Mini-Mu) to Construct a Genomic Map of *Aeromonas hydrophila* 111

Number 3, 1986

- Zoubida Elharrif and Francis Mégraud
Characterization of Thermophilic *Campylobacter*: I. Carbon-substrate Utilization Tests 117
- Faye E. Austin and C. D. Cox
Lactate Oxidation by *Treponema pallidum* 123
- Rita A. Brenden and Harry W. Huizinga
Susceptibility of Normal and X-irradiated Animals to *Aeromonas hydrophila* Infections 129
- Mario Jacques, Thomas J. Marrie, and J. William Costerton
In vitro Quantitative Adherence of Microorganisms to Intrauterine Contraceptive Devices 133
- Alan G. Williams, Alec B. Ellis, and Geoffrey S. Coleman
Subcellular Distribution of Polysaccharide Deploymerase and Glycoside Hydrolase Enzymes in Rumen Ciliate Protozoa ... 139
- Clemencia León, Shuzo Kumazawa, and Akira Mitsui
Cyclic Appearance of Aerobic Nitrogenase Activity during Synchronous Growth of Unicellular Cyanobacteria 149
- María C. Manca de Nadra, Carlos A. Nadra Chaud, Aída Pesce de Ruiz Holgado, and Guillermo Oliver
Arginine Metabolism in *Lactobacillus leichmannii* 155
- Richard B. Clark, Daniel H. Hu, J. Michael Janda, and Marcia K. Hostetter
Increased Susceptibility of Gentamicin-resistant *Pseudomonas aeruginosa* to Human Sera 159
- Philippe Soucaille and Gerard Goma
Acetobutylic Fermentation by *Clostridium acetobutylicum* ATCC 824: Autobacteriocin Production, Properties, and Effects 163
- Divaker Choubey and K. P. Gopinathan
Characterization of β -Lactamase from *Mycobacterium smegmatis* SN2 171

Number 4, 1986

- Herbert Hof and Richard Strauss
Suppression of Acquired Immunity to Infection with *Salmonella typhimurium* by Cyclosporin A 177
- Kazumichi Tamura, Riichi Sakazaki, Yoshimasa Kosako, and Etsuo Yoshizaki
Leclercia adecarboxylata Gen. Nov., Comb. Nov., Formerly Known as *Escherichia adecarboxylata* 179
- John J. Tudor and Steven M. Bende
The Outer Cyst Wall of *Bdellovibrio* Bdellocests Is Made de novo and Not from Preformed Units from the Prey Wall 185
- Stephen P. Mann, Colin G. Orpin, and Geoffrey P. Hazlewood
Transformation of *Bacillus* spp.: an Examination of the Transformation of *Bacillus* Protoplasts by Plasmids pUB110 and pHV33 191
- M. John Pickett and James R. Greenwood
Pseudomonas alcaligenes and *Pseudomonas testosteroni*: Characterization and Identification 197
- José M. Luengo, Angel Domínguez, Jesus M. Cantoral, and Juan F. Martín
Formation of Bulges Associated with Penicillin Production in High-producing Strains of *Penicillium chrysogenum* 203
- Balbina J. Plotkin and Warren V. Sherman
Photomodulation of Chemosensory Response in *Halobacterium halobium* 209
- J. Barry Jewell, John B. Coutinho, and Andrew M. Kropinski
Bioconversion of Propionic, Valeric, and 4-Hydroxybutyric Acids into the Corresponding Alcohols by *Clostridium acetobutylicum* NRRL 527 215
- Peter Feng and Arthur I. Aronson
Characterization of a *Bacillus subtilis* Germination Mutant with Pleiotropic Alterations in Spore Coat Structure 221
- Radheshyam K. Jayaswal
Galactose Metabolism in *Erwinia carotovora* Subsp. *carotovora* 227

Eiji Ichishima, Satoshi Hanzawa, Masahiko Watanabe, and Michio Takeuchi Electrophoretic Heterogeneity and Age-related Change of Serine Proteinase from <i>Aspergillus sojae</i>	231
--	-----

Number 5, 1986

Nalin Rastogi, Claude Frehel, and Hugo L. David Triple-layered Structure of Mycobacterial Cell Wall: Evidence for the Existence of a Polysaccharide-rich Outer Layer in 18 Mycobacterial Species	237
Gopal Reddy, Padma Shridhar, and H. Polasa Elimination of Col E1 (pBR322 and pBR329) Plasmids in <i>Escherichia coli</i> on Treatment with Hexamine Ruthenium(III) Chloride	243
Bruce Kefford, Beverley A. Humphrey, and Kevin C. Marshall Adhesion: a Possible Survival Strategy for Leptospire under Starvation Conditions	247
Jean-Claude Cortay, Henry C. Reeves, and Alain J. Cozzone Multiplicity of Phosphorylation Sites on <i>Escherichia coli</i> Isocitrate Dehydrogenase	251
James A. Lindsay and William G. Murrell Solution Spectroscopy of Dipicolinic Acid Interaction with Nucleic Acids: Role in Spore Heat Resistance	255
María C. Manca de Nadra, Carlos A. Nadra Chaud, Aída Pesce de Ruiz Holgado, and Guillermo Oliver Synthesis of the Arginine Dihydrolase Pathway Enzymes in <i>Lactobacillus buchneri</i>	261
R. Neil Cooley, Helen R. Haslock, and A. Brian Tomsett Isolation and Characterization of Cadmium-resistant Mutants of <i>Aspergillus nidulans</i>	265
Monica A. Devanas, Deborah Rafaeli-Eshkol, and Guenther Stotzky Survival of Plasmid-containing Strains of <i>Escherichia coli</i> in Soil: Effect of Plasmid Size and Nutrients on Survival of Hosts and Maintenance of Plasmids	269
Monica A. Devanas and Guenther Stotzky Fate in Soil of a Recombinant Plasmid Carrying a <i>Drosophila</i> Gene	279
Ralf Cord-Ruwisch, Bernard Ollivier, and Jean-Louis Garcia Fructose Degradation by <i>Desulfovibrio</i> sp. in Pure Culture and in Coculture with <i>Methanospirillum hungatei</i>	285

Number 6, 1986

Kolluru V. B. R. Tilak, Klaus Schneider, and Hans G. Schlegel Autotrophic Growth of Nitrogen-fixing <i>Azospirillum</i> Species and Partial Characterization of Hydrogenase from Strain CC ..	291
Mukesh Verma Molecular Cloning and Sequencing of Lysozyme Gene of Bacteriophage SF6 of <i>Bacillus subtilis</i>	299
Jean-Pierre Péros, Georges Piombo, and Jean-Claude Dumas Carbohydrate Metabolism of the Sugarcane Smut Fungus <i>Ustilago scitaminea</i>	303
Richard C. Crowther and Charlotte M. McCarthy Guanine Plus Cytosine Content of the <i>Mycobacterium avium</i> Complex and Other Mycobacteria by High-performance Liquid Chromatography Analysis of Deoxyribonucleotides	307
Alfonso Ruiz-Bravo, María Jimenez-Valera, Gerardo Alvarez de Cienfuegos, Khalil Kouwatli, and Alberto Ramos-Cormenzana Spontaneous Binding of <i>Yersinia enterocolitica</i> to Murine Leukocytes	313
Zoubida Elharrif and Francis Mégraud Characterization of Thermophilic Campylobacter. II. Enzymatic Profiles	317
Anne-Brit Kolstø Otnaess and Astrid Laegreid Detection of Femtomolar Quantities of the Ganglioside G _{M1} on Thin-layer Chromatography Plates by Native Cholera toxin and Labeled Antisera	323
Joseph P. Iaconis and Rial D. Rolfe <i>Clostridium difficile</i> -associated Ileocectitis in Clindamycin-treated Infant Hamsters	327
Antonie B. J. Sepers Effect of Variable Nutrient Supply Rates on the RNA Level of a Heterotrophic Bacterial Strain	333
Kazuo Ozawa and Hidenori Iwahana Involvement of a Transmissible Plasmid in Heat-stable Exotoxin and Delta-endotoxin Production in <i>Bacillus thuringiensis</i> Subspecies <i>darmsstadensis</i>	337



